What is claimed is:

1. A method for the automatic collection of surveillance information by an unmanned air vehicle, the method comprising the steps of:

receiving an automatic collection requirements message;

determining a route for gathering requested information about a target in accordance with a collection policy; and

controlling operation of an air vehicle to follow the route and gather the requested information.

- 2. The method of claim 1, wherein each automatic collection requirements message includes priority and precedence information.
- 3. The method of claim 2, wherein the step of a determining route for gathering requested information comprises the steps of:

determining a collection plan and a flight plan in accordance with the priority and precedence information.

4. The method of claim 3, wherein the collection plan is responsive to imaging constraints including one or more of:

temporal constraints, look angles, National Imagery Interpretability Rating Scale rating, priority, bandwidth, and storage capacity.

5. The method of claim 1, wherein the step of a determining route for gathering requested information comprises the steps of:

determining if the target is within range; and planning a route to the target if the target is within range.

6. The method of claim 1, wherein the step of a determining route for gathering requested information comprises the steps of:

determining if a receiver is within range; and

if a receiver is not within range, planning a route to an area where a receiver is within range.

- 7. The method of claim 1, further comprising the step of:
- dynamically inserting new sensor collection requests into an existing collection plan.
- 8. An automatic collection management system for an unmanned air vehicle comprising:

a receiver for receiving an automatic collection requirements message;

a processor for determining a route for gathering requested information about a target in accordance with a collection policy; and

a vehicle control for controlling operation of an air vehicle to follow the route and gather the requested information.

- 9. The system of claim 8, wherein each automatic collection requirements message includes priority and precedence information.
- 10. The system of claim 8, wherein the processor determines a collection plan and a flight plan.
- 11. The system of claim 10, wherein the collection plan is responsive to imaging constraints including one or more of:

temporal constraints, look angles, National Imagery Interpretability Rating Scale rating, priority, bandwidth, and storage capacity.

- 12. The system of claim 8, wherein the processor determines if the target is within range and plans a route to the target if the target is within range.
- 13. The system of claim 8, wherein the processor determines if a receiver is within range; and if a receiver is not within range, plans a route to an area where a receiver is within range.
- 14. The system of claim 8, wherein the processor dynamically inserts new sensor collection requests into an existing collection plan.
- 15. An automatic collection management system for an unmanned air vehicle comprising:

means for receiving an automatic collection requirements message;

means for determining a route for gathering requested information about a target in accordance with a collection policy; and

means for controlling operation of an air vehicle to follow the route and gather the requested information.

- 16. The system of claim 15, wherein each automatic collection requirements message includes priority and precedence information.
- 17. The system of claim 15, wherein the means for determining a route for gathering requested information determines a collection plan and a flight plan.
- 18. The system of claim 17, wherein the collection plan is responsive to imaging constraints including one or more of:

temporal constraints, look angles, National Imagery Interpretability Rating Scale rating, priority, bandwidth, and storage capacity.

- 19. The system of claim 15, wherein the means for determining a route for gathering requested information determines if the target is within range and plans a route to the target if the target is within range.
- 20. The system of claim 15, wherein the means for determining a route for gathering requested information determines if a receiver is within range; and if a receiver is not within range, plans a route to an area where a receiver is within range.